

ABSTRACT OF THE DISCLOSURE

The present invention provides an optical semiconductor integrated device having an anti-reflection coating on the facet with a thinner thickness than those used in a conventional device. The device of the present invention
5 comprises an light-generating region and a light-modulating region having a first facet for outputting light generated in the light-generating region and modulated in said light-modulating region. The first facet provides an anti-reflection coating including a first layer closest to the light-modulating region and a second layer. The first layer has a first refractive index and the second layer has a second
10 refractive index greater than the first refractive index.